Cluster Management

Summary

A cluster is a system comprising two or more computers or systems *(called nodes)* which work together to execute applications or perform other tasks, so that users who use them, have the impression that only a single system responds to them, thus creating an illusion of a single resource *(virtual machine)*. This setup provides the computing power necessary for computationally complex research, and large data set analysis. SOM provides computing cluster power to support research needs of our community.

Features

- Management of the SOM research computing cluster:
  - ROCKS+ Linux cluster
  - Platform LSF scheduler
  - 116 processing cores
  - 1,124GB system memory
  - 20TB storage capacity
- Update and management of system tools and software:
  - Matlab R2017a
  - KNITRO
  - AMPL
  - Stata 13.1
  - SAS 9.2
  - R 3.3.2
  - Python
    - 2.7
    - 3.5
  - GCC compiler
  - MySQL database
- Management of the datasets

Who can use it?

This service is available to the entire SOM community doing data modeling and research computing functions that require the power of cluster computing.

How much does it cost?

This service is available at no charge to the Yale School of Management community.

How do I get it?

There is a schedule of maintenance performed by SOM IT.

Related Policy and Procedures

- All users of Yale University computing and networking facilities are expected to read and abide by the Information Technology Appropriate Use Policy. For additional information, please familiarize yourself with the Policies and Procedures related to HIPAA Security.

Related Knowledge Articles